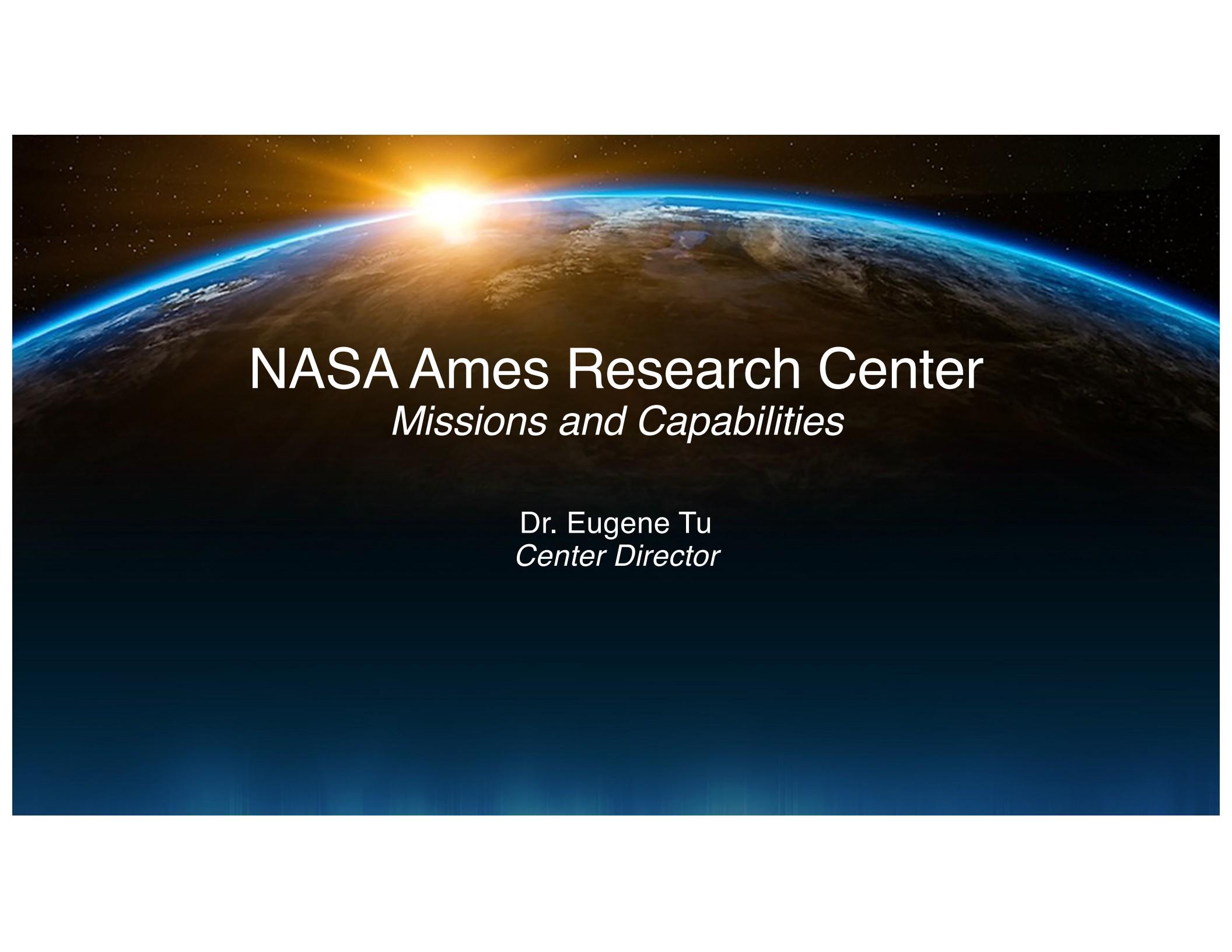




SILICON  
VALLEY

---

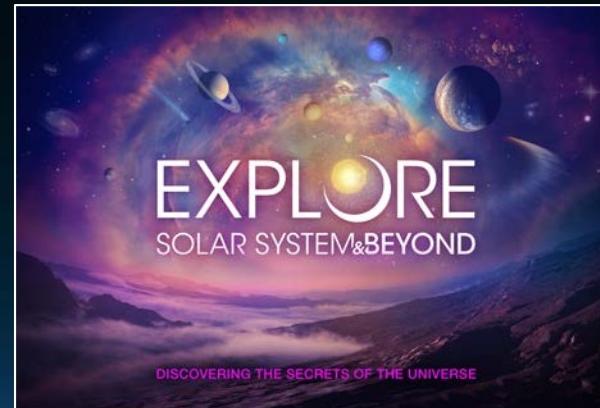
AMES RESEARCH CENTER



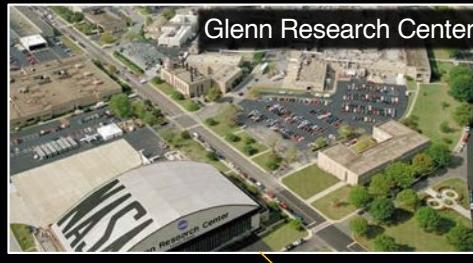
# NASA Ames Research Center

## *Missions and Capabilities*

Dr. Eugene Tu  
*Center Director*

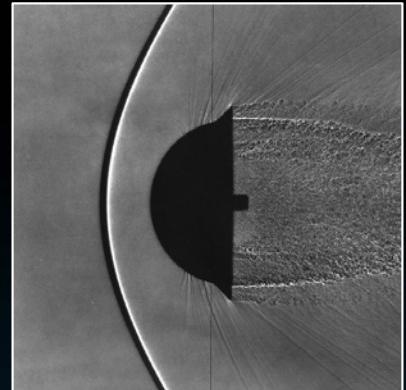
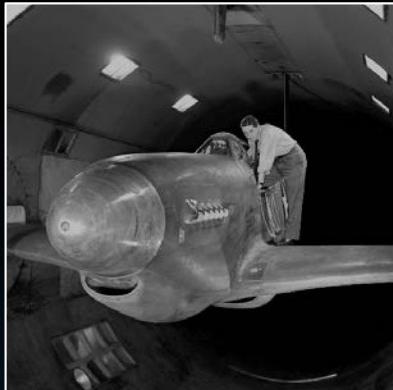


# NASA Centers



# Ames Aeronautical Laboratory

*The NACA's Second Laboratory*



## NACA Est. 1915

*Langley – 1917  
Ames – 1939  
Research Hangar  
7x10-foot Tunnels  
40x80-foot Full Scale  
16-foot High Speed  
12-foot Pressure Tunnel*

## 1940s: Quick & Practical

*De-icing  
Duct Rumble  
Aileron Flutter  
Buffeting  
Dive Control*

## The Supersonic Age

*Swept Wings  
Supersonic Tunnels  
Supersonic Area Rule  
Conical Camber  
Hypervelocity Research*

## 1950s

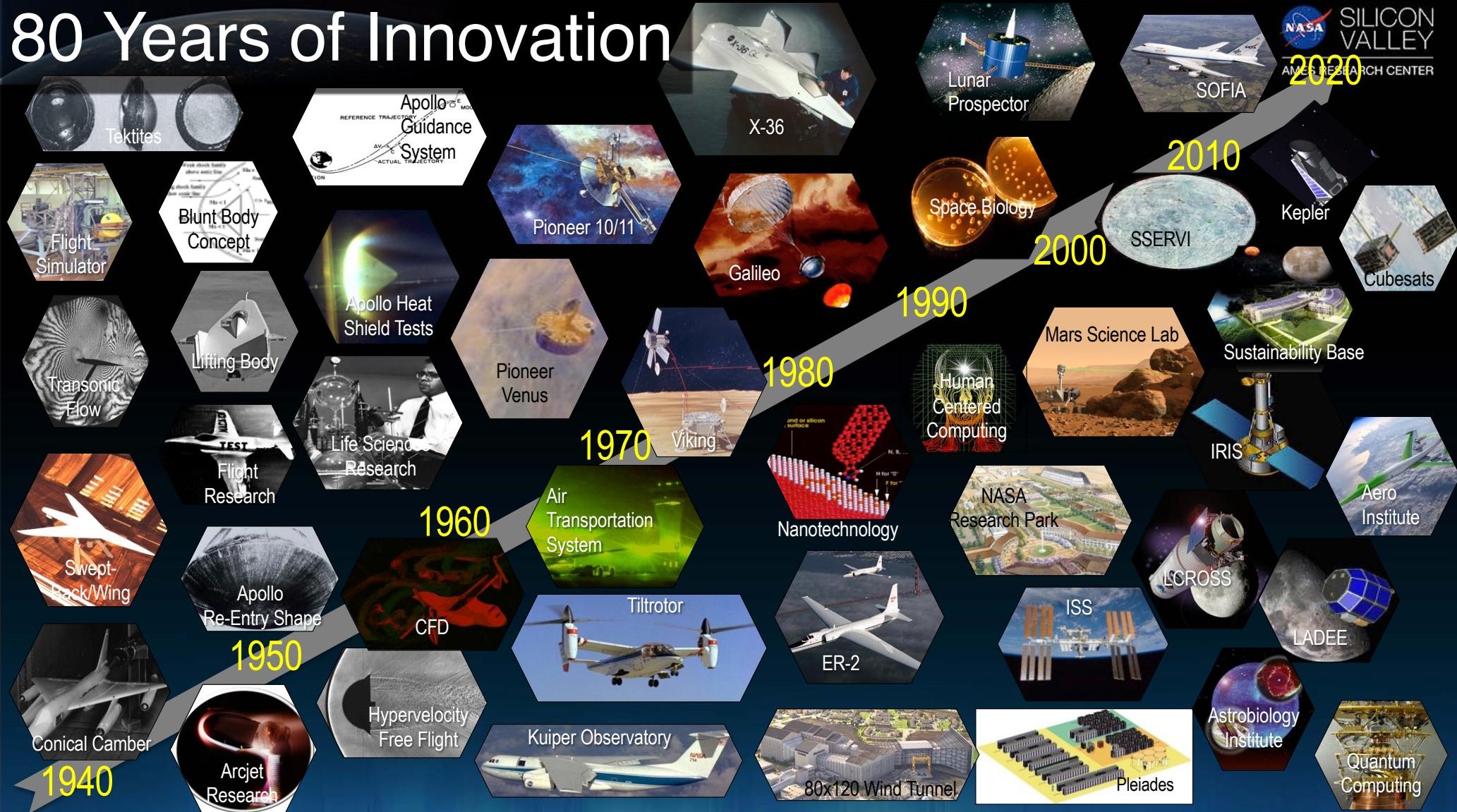
*Simulation  
Unitary Tunnel  
Blunt Body Concept*

## NACA Becomes NASA

*Reentry Studies  
Arc Jet Development  
Spaceflight Projects*

# 80 Years of Innovation

NASA  
SILICON  
VALLEY  
AMES RESEARCH CENTER  
2020



# Ames Today



## Occupants

*~1,200 civil servants  
~1,900 on-site contractors  
~2,500 NRP workforce  
~700 summer students in 2019*

## FY20 Budget

*~\$1,011M (est.) & includes  
reimbursable/EUL*

## Real Property

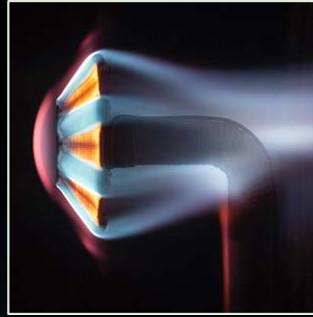
*~1,900 acres  
400 acres security perimeter  
5M building ft<sup>2</sup>  
Airfield with ~9,000 and 8,000 ft.  
runways*

# Core Competencies

Air Traffic Management



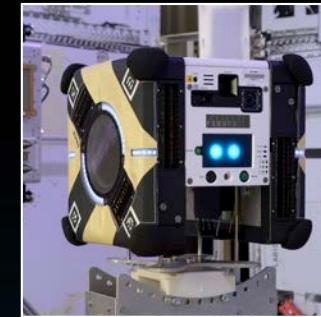
Entry Systems



Advanced Computing & IT Systems



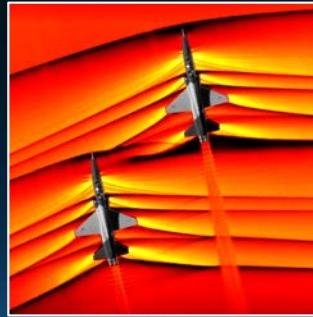
Intelligent & Adaptive Systems



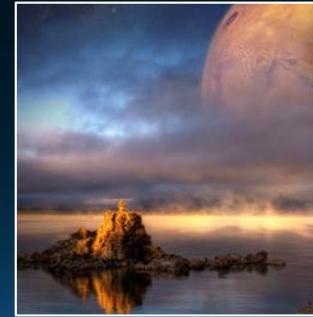
Cost-Effective Space Missions



Aerosciences



Astrobiology & Life Science



Space & Earth Sciences

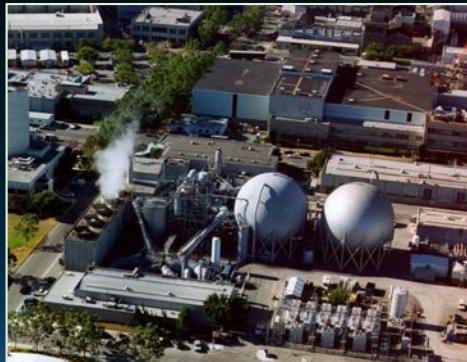


# Major Research Facilities

Wind Tunnels



Arc Jet Complex



Simulators



Supercomputing





# Evaluating Sustainable Aviation Aircraft Configurations (Unitary Plan Wind Tunnel Facility)



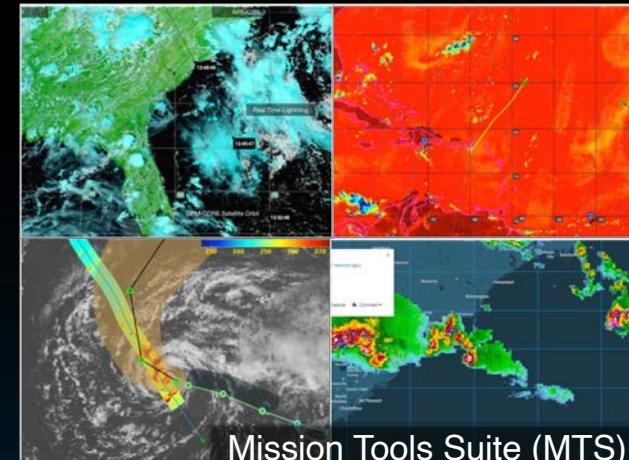
# Large Scale Simulations of Sustainable Aviation Operations (Future Flight Central)



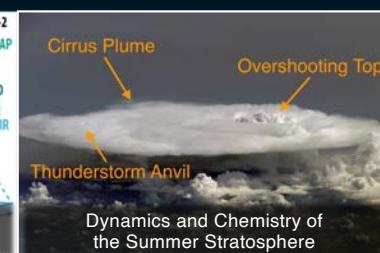
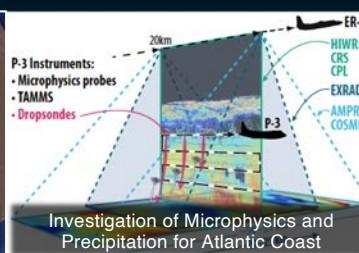
# Airborne Earth Science Helps Us Understand and Mitigate Climate Change Effects/Impacts



New unmanned aircraft available to science from SUAS to HALE



Earth Science Project Office



# Research For Wildfire And Disaster Support (Capabilities In The Field)





# EXPLORE FLIGHT

WE'RE WITH YOU WHEN YOU FLY

